

Title (en)

Heat storage for adiabatic compressed air storage for energy saving purposes

Title (de)

Wärmespeicher für adiabatische Druckluftspeicherung zum Zwecke der Energiespeicherung

Title (fr)

Accumulateur thermique pour le stockage d'air comprimé adiabatique à des fins d'économies d'énergie

Publication

EP 1857614 A3 20090805 (DE)

Application

EP 07105440 A 20070402

Priority

DE 102006022783 A 20060516

Abstract (en)

[origin: EP1857614A2] Large volume heat accumulator consists of two caps placed over one another which possess the form of a perpendicularly standing pipe with rounded caps at the ends. The outside cap represents a pressure cap and the inner cap represents heat resistant cap in which the heat accumulator elements (2) are provided. Within the heat resistant cap an inflow and outflow area, for the air to flow from the underground compressed air accumulator, is arranged under the intermediate cover area and within the heat resistant cap, an inflow and outflow area for air from the compressor, alternatively in the energy generation plant, is arranged under the heat resistant caps in the area above the stack of heat accumulator elements.

IPC 8 full level

E04H 7/20 (2006.01)

CPC (source: EP)

F02C 6/16 (2013.01); **F17C 1/00** (2013.01); **F17C 2201/0109** (2013.01); **F17C 2201/032** (2013.01); **F17C 2201/052** (2013.01); **F17C 2201/054** (2013.01); **F17C 2203/012** (2013.01); **F17C 2203/0329** (2013.01); **F17C 2203/035** (2013.01); **F17C 2203/0383** (2013.01); **F17C 2203/0619** (2013.01); **F17C 2203/0629** (2013.01); **F17C 2203/0631** (2013.01); **F17C 2203/0639** (2013.01); **F17C 2203/0678** (2013.01); **F17C 2205/0184** (2013.01); **F17C 2205/0352** (2013.01); **F17C 2221/031** (2013.01); **F17C 2223/0123** (2013.01); **F17C 2223/035** (2013.01); **F17C 2223/036** (2013.01); **F17C 2225/0123** (2013.01); **F17C 2225/035** (2013.01); **F17C 2225/036** (2013.01); **F17C 2260/032** (2013.01); **F17C 2260/033** (2013.01); **F17C 2260/046** (2013.01); **F17C 2270/0136** (2013.01); **F17C 2270/0581** (2013.01); **Y02E 60/16** (2013.01)

Citation (search report)

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- [A] GB 878615 A 19611004 - GEN ELECTRIC CO LTD
- [A] GB 997882 A 19650714 - ATOMIC ENERGY AUTHORITY UK
- [A] CH 449231 A 19671231 - BONNARD & GARDEL INGENIEURS CO [CH]

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

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DOCDB simple family (application)

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